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APPLICATION NO.	CATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/672,206	09	9/28/2000	Danny Raz	5	8786
46363	7590	01/30/2006		EXAMINER	
		ERIDAN, LLP/	KANG, PAUL H		
LUCENT TE 595 SHREW		,	ART UNIT	PAPER NUMBER	
SHREWSBU	JRY, NJ	07702	2141		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/672,206	RAZ, DANNY
Office Action Summary	Examiner	Art Unit
	Paul H. Kang	2141
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. mely filed in the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 31 O This action is FINAL. Since this application is in condition for alloward closed in accordance with the practice under E 	s action is non-final. nce except for formal matters, pr	
Disposition of Claims		
4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ acc	er election requirement.	Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is ol	bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicative documents have been received in Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) - Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) - Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal	
Paper No(s)/Mail Date	6) Other:	

DETAILED ACTION

Status of the Claims

1. Upon further consideration, in light of the newly applied prior art of record, the previous indication of allowability of claims 1-6 is hereby withdrawn. No claims are allowable.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 8-9 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The method steps of claims 1-9 are not limited to tangible embodiments, therefore non-statutory. The claims 1, 7 and 8 may be amended to read "A computer implemented method for..." in order to overcome this rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Poletto et al. (US Patent Application Publication No. 2002/0031134 and Poletto hereinafter) in view of Malan et al., US Patent Application No. 2002/0035698 A1.

4. As to claim 1, the Poletto teaches the invention substantially as claimed. Poletto teaches a system and method for thwarting coordinated SYN denial of service attacks (CSDos), wherein a predetermined fraction of SYN packets destined for a server is switched to a processor for analysis (paragraphs 0025-0031), establishing a TCP connection between the

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client and server, monitoring the timeout connections, wherein if the timeout connections exceeds a predetermined

threshold, the connection is reset.

However, the prior art of record does not explicitly teach controlling a network switch to divert a predetermined

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fraction of SYN packets destined for a server, to a web guard processor, and if after monitoring the timed-out connections

exceeds a predetermined threshold, controlling the switch to divert all SYN packets destined to said server to said web

guard processor.

In the same field of endeavor, Malan teaches a method and system for protecting a network from denial of

service attacks comprising controlling a network switch to divert a predetermined fraction of SYN packets destined for a

server, to a web guard processor, and if after monitoring the timed-out connections exceeds a predetermined threshold,

controlling the switch to divert all SYN packets destined to said server to said web guard processor (see Malan, paragraph

0108-0110).

5. As per claim(s) 2 Poletto-Malan teaches the claimed invention as described in claim(s) 1 above and furthermore

discloses generating an alarm indicating that said server is likely to be under attack, (See Poletteo, paragraph 0055-0058).

6. As per claim(s) 3 Poletto teaches the claimed invention as described in claim(s) 1-2 above and furthermore

discloses determining if the number of timed-out connections between said web guard processor and said clients exceeds a

second predetermined threshold, and if so, controlling said switch to delete (i.e., reset) all SYN packets destined for said

server, (Poletteo, paragraph 0060-0072).

7. As per claim(s) 4 Poletto teaches the claimed invention as described in claim(s) 1-3 above and furthermore

discloses the step of generating an alarm indicating that said server is under attack, (See Poletteo, paragraph 0055-0058).

8. As per claim(s) 5 Poletto teaches the claimed invention as described in claim(s) 1-4 above and furthermore

discloses notifying said server that it is under attack, (See Poletteo, paragraph 0038).

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9. As per claim(s) 6 Poletto teaches the claimed invention as described in claim(s) 1-5 above and furthermore

discloses notifying other web guard processors in said network that said server is under attack, (See Poletteo, paragraph

0037-0040).

10. As per claim(s) 7 Poletto discloses the invention substantially as claimed. Poletto teaches arranging a switch

receiving said SYN packets destined to said server to forward said SYN packets to a TCP proxy arranged to operate

without an associated cache, for each SYN packet, sending a SYN/ACK packet from the TCP proxy to a sender address

included in the SYN packet by the host, wherein, when subject to a CSDOS attack, does not successfully establish a TCP

connection with said malicious host, and no TCP connection is made from said TCP proxy to said server, thereby

protecting said server from said attack (See Poletto, paragraph 0053-0063).

11. As per claim(s) 8, Poletto discloses forwarding a statistical sampling of packets from a switch in said network to

a processor, if packets in said sampling indicate an attack, alerting the operation of said switch to reduce the effects of said

attack, (See Paragraph 0042-0048).

However, the prior art of record does not explicitly teach controlling a network switch to divert a predetermined

fraction of SYN packets destined for a server, to a web guard processor, and if after monitoring the timed-out connections

exceeds a predetermined threshold, controlling the switch to divert all SYN packets destined to said server to said web

guard processor.

In the same field of endeavor, Malan teaches a method and system for protecting a network from denial of

service attacks comprising controlling a network switch to divert a predetermined fraction of SYN packets destined for a

server, to a web guard processor, and if after monitoring the timed-out connections exceeds a predetermined threshold,

controlling the switch to divert all SYN packets destined to said server to said web guard processor (see Malan, paragraph

0108-0110).

12. As per claim(s) 9 Poletto-Malan teach the claimed invention as described in claim(s) 8 above and furthermore

discloses said switch is arranged to discard packets in the event an attack is detected, (See Poletto, Paragraph 0060-0062).

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Response to Arguments

13. Applicant's arguments with respect to claims 7-9 have been considered but are moot in view of the new ground(s) of rejection. The applicants argued in substance that the prior art of record fails to teach a SYN/ACK packet and further does not forward all packets destined for said server to said processor. The new grounds of rejection teaches these features.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul H Kang whose telephone number is (571) 272-3882. The examiner can normally be reached on 9 hour flex. First Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yaul H. Kang Primary Examiner